Network Control Center

STDN DAILY REPORT
FOR GMT DAYS
20, 21, AND 22 AUGUST , 2001

Part I. Operations

20 AUG.

A. SN Anomalies - None.

B. ISS Anomalies - None.

C. GN Anomalies:

1. SKS/QST Support 19/0751-0759Z

QuikSCAT 4 kb and 262 kb telemetry data loss. SKS lost the 4 KB real time telemetry data 5 minutes after AOS. There was no lock on the 262 KB telemetry data. The 2 MB data and tracking data was OK from AOS to LOS (07:46 to 07:59). SKS checked OK with a long loop test of the 4 kb and 262 kb telemetry data. CDS ID # 19521

UNKNOWN
S-Band 0746-0759Z 21 Min. Svc/Data Loss Non-Recov

2. AGS/FAST Support 20/0130-0132Z

LEO-T did not get scheduled to take the pass. Shortly after AOS, TOTS took the pass. There was no loss of data or commanding since TOTS was already supporting this orbit. Cause of this problem is under investigation. CDS ID # 19519

UNKNOWN
No Data Loss Declared

3. SKS/QST Support 20/1550-1605Z

4 kb real-time telemetry lost because gateway was not able to connect to QMOC, due to an operator fault. A reconnection and ping command produced negative results. CDS ID # 19524

OPERATOR ERROR
S-Band 15 Mins 03 Seconds Svc/Data Loss Non-Recov

4. WGS/IP3 Support 20/1625-1635Z

No receiver lock at predicted AOS + 2 minutes. All systems looked nominal, including LEO-T Combiner. Manually scheduled IP3 on 11 Meter Antenna System and began program tracking with available ephemeris data and had no down link signal. Reason for anomaly is unknown. CDS ID # 19523

UNKNOWN
LEO-T 9Mins 30 Seconds Svc/Data Loss (Unknown Recov)

21 AUG.

A. SN Anomalies - None:

B. ISS Anomalies:

1. WSGT/ISS Support 21/1235-1241Z

Return service loss due to a prime chain false lock condition. Manual failover from chain “A” to chain “B” restored service. TTR # 24018 DR # 43381

STATION EQUIPMENT
TDE SSA2 1235-1311Z 6 Mins 36 Sec Svc/Data Loss Non-Recov

C. GN Anomalies:

1. AGS/FAST Support 21/0127-0138Z

LEO-T did not support this orbit number. The LEO-T did not start to set-up, although the support was listed as being scheduled. TOTS-1 was able to take commanding and data without loss of data. This problem is under investigation at this time. CDS ID # 19525

UNKNOWN
No Data Loss Declared

2. AGS/TRACE Support 21/0312-0321Z

LEO-T failed to take support. It did not start to set-up. TOTS-1 took the support without loss of data or commanding. CDS ID # 19526

UNKNOWN
No Data Loss Declared

D. The ATLAS 11/2MLV-10 Launch scheduled for 08/25/01 238/1834Z has slipped indefinitely. Per RW Vandenberg AFC.

22 AUG.

A. SN Anomalies - None:

B. ISS Anomalies:

1. STGT/ISS Support 22/1557-1622Z

24 minute 57 second forward service loss. About fifteen minutes into the support STGT overhead, on the MDM Order-wire, troubleshooting efforts between JSC and Comm Manager concerning an ISS forward link problem. Informed that ISS was not locking to the 3Mbps onboard, but had good signal strength a forward reacq was sent which didn't lock the spacecraft. Next, a forward chain failover 'B' to 'A'. ISS Command then reported good lock onboard. TTR # 20419 DR # 43383

EQUIPMENT ANOMALY
TDW 1557-1643Z KSA2-F 24 Mins 57 Secs Svc Loss

C.GN Anomalies:

1. WGS/FUSE Support 22/0035-0415Z

FUSE POCC unable to command. During support period of 0033-0044Z FUSE POCC telephoned to report inability to command. Downlink data was being received with no problems observed. At time of call, pass was well under way but station operator was able to determine that a command socket was established and commands were being received on site. It appeared that uplink system was operating properly. After LOS, operator was able to perform a simulated support and all systems appeared to be nominal. During second support period FUSE POCC telephoned to report same problem; good D/L data and no commands. Operator initiated the LEO-T "command reset" command with no change in command problem. FUSE POCC suggested a complete reboot of the LEO-T system following the second event data file transfers.
The reboot procedure was not completed in time to perform support for the 0406Z time period. Currently, troubleshooting of the command problem is on-going. CDS ID # 19531

ANOMALY UNKNOWN
LEO-T 21 Mins Svc / Data Loss Recov-Unknown
0035-0039Z, 0021-0225Z ,0406-0415Z
12 Mins Svc Loss, 9 Mins Data Loss

2. AGS/EO1 Support 22/062748-0643Z

Missed support due to Computer failure. While waiting for EO1 pass start time it was noticed the SCC (antenna control computer)had halted. Two minutes and 12 seconds were showing on the time remaining line and the clock was not counting down. EO1 MOC was notified of the problem and the computer was stopped and started to try and salvage the support. The computer would not come up from the start command. EO1 MOC was notified that the entire support

would probably be missed and the SCC was powered down. After the computer was restarted and when the computer came to the place to type in start, the same thing happened, the computer hung and would not pass that point. Reading the error messages indicated there may be a remote problem. Since at this point it was only about a minute until the master computer would start the support shutdown, the operator decided to wait and see what would happen. As soon as the master computer started the shutdown procedures the SCC computer began cycling and came up. All node computers the SCC and the master computer were then power down recycled. Antenna control has been regained. CDS # 19532

STATION EQUIPMENT
11M 0630-0643Z 13 Mins Svc/Data Loss Recov

3. AGS/ACRIMSAT Support 22/0951-1141Z

Unable to Command ACRIMSAT. When attempting to command for a blind ACQ it was discovered that the board that controls commands in the PTP had failed to connect. Further investigation revealed that there was a probability that the board needed to be reseated in its slot. Post pass the PTP was powered down and the board was reseated. The PTP then displayed a board connection. During the second support the board appeared to be connected but there still was no success in commanding. Post pass the board was swapped with a board from PTP #2. This solved the problem. CDS ID # 19535

STATION EQUIPMENT
11M 26 Mins Svc/Data Loss Recoverable

4. AGS/FAST Support 22/0442-1441Z

ACC failed to connect to ACU 3840 controller and shut down, would not reboot. TOTS-1 STATED RED FOR THIS SUPPORT. System initially failed at 234/0442 while setting up for a pass, however the system was recovered in time to take all passes up until the Fast 234/11:59:00 pass. At this point, the station was stated RED. The ACC would not initialize or communicate with

the ACC computer. The screen was blue with only the error "could not communicate with 3840"... By disconnecting all receivers and leaving only the 3840 on the IEEE Bus, I recovered the ACC.
After re-installing the IEEE loop back to the receivers, the system came back up and initialized with no problems. A wire shadow pass was taken to insure the system did not fail before it was turned GREEN at 234/1441Z. CDS ID # 19534

STATION EQUIPMENT
TOTS-1 1159-1216Z 17 Mins 28 Secs Svc/Data Loss Non-Recov

5. AGS/QST Support 22/1309-1324Z

Loss of real time data to the project. During the support period for QST it was discovered that the real time data was not being processed by the PTP. The data was being recorded and the science data was being processed and the decision was made to call QMOC and report the problem. All science data was processed and transferred normally and the real time is on tape. QMOC indicated they did not want a playback of the real time data. This problem was solved by swapping out a processor card with a back up PTP. CDS ID # 19536

STATION EQUIPMENT
11M 13 Mins Svc/Data Loss Recov

D. STS-105 DISCOVERY LANDED AT KSC 22/1823Z.

Part II. Testing Anomalies

A. SN Test - None.

B. GN Test - None.

Part III. Equipment Status Changes :

ESR MIL 080
EXCT:02-L1 R 08221100 ETRO 08241600Z Lighting Strike

ESR MIL 081
LNAM:04-L1 R 08221100 ETRO 08241600Z Lighting Strike

$ = Changed ETRO
** = New Items

Part IV. Scheduled Activities:

1. TILT US COAST GUARD EXPEDITION 8/23 235/1032-1100Z
   (ADD 11: 22/1700Z) 8/23 235/1235-1532Z

Part V. Forecast Changes:

1.) H3332LS (ATLAS/2MLV-10) NET 08 SEP. T-0=1535Z

2.) H4343LS (TAURUS/ORBVIEW-4 NET 15 SEP. T-0= UNK
QUICKTOMS)

3.) H5390LS (ATHENA/KODIAK STAR) NET 17 SEP. T-0=UNK